

Elliptic flow fluctuations and non-flow correlations measured by STAR

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We present STAR measurements of the non-statistical width in the distribution of the length of the flow vector in 200 GeV Au+Au collisions. This width depends on the magnitude of v_2 fluctuations and non-flow correlations and is directly related to the difference between 2- and 4-particle cumulants. Using these measurements, along with charge and pseudo-rapidity dependences, we place upper limits on the magnitude of v_2 fluctuations and derive minimum values for non-flow. The v_2 fluctuation upper limit challenges current models for the initial conditions in heavy-ion collisions.